

. summarize Bricks Floor Faucet Piping Wiring Luminaries Roofing

Variable	Obs	Mean	Std. Dev.	Min	Max
Bricks	68	2.529412	1.705746	1	7
Floor	68	4.926471	1.557995	1	7
Faucet	68	3.852941	1.910417	1	7
Piping	68	1.705882	1.234562	1	6
Wiring	68	1.632353	1.006018	1	5
Luminaries	68	4.338235	1.857701	1	7
Roofing	68	3.691176	1.668473	1	7

. by Actor, sort : summarize Bricks Floor Faucet Piping Wiring Luminaries Roofing

-> Actor = 1

Variable	Obs	Mean	Std. Dev.	Min	Max
Bricks	34	2.735294	1.711084	1	6
Floor	34	4.911765	1.464068	1	7
Faucet	34	3.588235	1.892852	1	7
Piping	34	2.029412	1.336783	1	6
Wiring	34	2.088235	1.137985	1	5
Luminaries	34	4.176471	2.066626	1	7
Roofing	34	3.647059	1.721211	1	7

-> Actor = 2

Variable	Obs	Mean	Std. Dev.	Min	Max
Bricks	34	2.323529	1.700634	1	7
Floor	34	4.941176	1.668626	1	7
Faucet	34	4.117647	1.919039	1	7
Piping	34	1.382353	1.044893	1	6
Wiring	34	1.176471	.5758045	1	3
Luminaries	34	4.5	1.637626	1	7
Roofing	34	3.735294	1.638714	1	6

. ttest Wiring, by(Faucet) unequal welch
more than 2 groups found, only 2 allowed
r(420);

. ttest Wiring, by(Faucet)
more than 2 groups found, only 2 allowed
r(420);

. ttest Wiring == Floor

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
Wiring	68	1.632353	.1219976	1.006018	1.388845	1.875861
Floor	68	4.926471	.1889347	1.557995	4.549355	5.303586
diff	68	-3.294118	.2188031	1.804297	-3.730851	-2.857385

mean(diff) = mean(Wiring - Floor) t = -15.0552
Ho: mean(diff) = 0 degrees of freedom = 67

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = 0.0000 Pr(|T| > |t|) = 0.0000 Pr(T > t) = 1.0000

. ttest Wiring == Luminaries

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
Wiring	68	1.632353	.1219976	1.006018	1.388845	1.875861
Lumina~s	68	4.338235	.2252794	1.857701	3.888576	4.787895
diff	68	-2.705882	.237098	1.95516	-3.179132	-2.232633

mean(diff) = mean(**Wiring - Luminaries**) t = **-11.4125**
Ho: mean(diff) = 0 degrees of freedom = **67**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.0000** Pr(|T| > |t|) = **0.0000** Pr(T > t) = **1.0000**

. ttest Piping == Floor

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
Piping	68	1.705882	.1497127	1.234562	1.407055	2.00471
Floor	68	4.926471	.1889347	1.557995	4.549355	5.303586
diff	68	-3.220588	.2255085	1.859591	-3.670705	-2.770471

mean(diff) = mean(**Piping - Floor**) t = **-14.2815**
Ho: mean(diff) = 0 degrees of freedom = **67**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.0000** Pr(|T| > |t|) = **0.0000** Pr(T > t) = **1.0000**

. ttest Piping == Luminaries

Paired t test

Variable	Obs	Mean	Std. Err.	Std. Dev.	[95% Conf. Interval]	
Piping	68	1.705882	.1497127	1.234562	1.407055	2.00471
Lumina~s	68	4.338235	.2252794	1.857701	3.888576	4.787895
diff	68	-2.632353	.2698684	2.225392	-3.171013	-2.093693

mean(diff) = mean(**Piping - Luminaries**) t = **-9.7542**
Ho: mean(diff) = 0 degrees of freedom = **67**

Ha: mean(diff) < 0 Ha: mean(diff) != 0 Ha: mean(diff) > 0
Pr(T < t) = **0.0000** Pr(|T| > |t|) = **0.0000** Pr(T > t) = **1.0000**

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